Troubleshooting Guide

Should any problem persist after you have made the following checks, consult your nearest Sony service facility.

Symptom	Cause and/or remedy
Disc play does not start.	• The disc is inserted upside down. Insert the disc correctly with the label surface up. • Dusty or defective disc. • Dirty or dusty lens. • The disc compartment lid is not closed. • Moisture condensation. Leave the player in a warm place until the moisture evaporates. • The AC power adaptor is not plugged into the wall outlet. • The cord of the car battery cord DCC-50 is not firmly connected. • The HOLD/RESUME switch is set to the direction of the arrow. • Weak batteries.
No sound from the headphones	• The headphones plug is not firmly connected to the PHONES jack. • Adjust the volume control. • Dirty plug.
No sound from the connected speakers	• Check the connections. • The amplifier is not turned on.
Skipping of sound	• Dirty or defective disc. • Dirty lens. • Strong vibration.

Specifications

CD section

System: Compact disc digital audio system
Laser diode properties: Material: GaAlAs; Wavelength: 780 nm; Emission duration: Continuous; Laser output: Less than 44.6 μW (This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.)
Frequency response: 20 - 20,000 Hz ; dB (measured by EIAJ CP-307)
Output (at 9 V input level): Line output (stereo minijack) Output level 1 V rms at 47 kilohms Load impedance over 10 kilohms; Headphones (stereo minijack) 9 mW + 9 mW at 32 ohms

General

Power requirements: DC 6 V, four size AA (LR6) alkaline batteries; DC IN 9 V jack accepts: • Supplied AC power adaptor for use on 120 V AC, 60 Hz • Supplied DCC-50 car battery cord for use on 12 V car battery • Sony CPM-200P/100P mount plate (optional) for use on 12 V car battery
Power consumption: 1.2 W DC
Dimensions: Approx. 140 × 42.2 × 162 mm (5⅝ × 1 11/16 × 6½ in.) (w/h/d) incl. projecting parts and controls
Weight: Approx. 480 g (1 lb. 1 oz.) net; Approx. 550 g (1 lb. 3 oz.) incl. batteries
Supplied accessories: AC power adaptor (1); Car battery cord DCC-50 (1); Car connecting pack CPA-2 (1); Connecting cord (1); Fuse (1); Velcro tape (2); Plug head (1)
Optional accessories: Wireless remote commander RM-DM1K; Wired remote commander RM-DM2; Car mount arm kit CPM-70; Car mount arm CPM-200A/CPM-100A; Mount plate CPM-200P/CPM-100P

Design and specifications subject to change without notice.

SONY

3-750-714-22 (1)

Compact Disc Compact Player

D-180K

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number and the serial number is located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. D-180K Serial No. _____

Features

- Compact size four size AA batteries inside
- Various lock functions for preventing accidental operation
- Remotely controllable with the optional unit
- Resume play for starting disc play from the point you stopped last time
- Shock-proof design for using in a car
- Illumination in the disc compartment, display window and the operation buttons during disc play (during AC operation and car battery operation only)

Discman

Sony Corporation ©1989 Printed in Japan

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

CAUTION

The use of optical instruments with this product will increase eye hazard.

For the Customers in Canada

THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.

Using in a Car

Installation

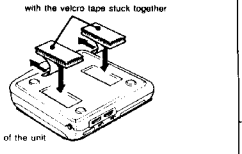
Precautions

- Do not install the unit in a location which:
  - —interferes with your driving.
  - —may be dangerous for passengers.
  - —interferes with the glove box lid or ashtray when opening it.
  - —is near heat source.
  - —is subject to direct sunlight, excessive dust, or moisture.

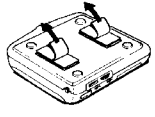
Do not install the unit on the dashboard of a car to avoid exposing it to direct sunlight.

Please understand that we will not incur any obligations for troubles caused by incorrect installation.

1 Attach the supplied velcro tapes on the bottom.



2 Depatch the paper.



3 Install on a flat surface.

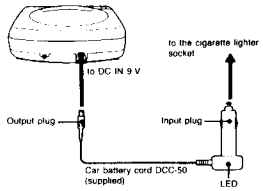
Power Connections (with the supplied car battery cord DCC-50)

Precautions

- DCC-50 is used only for the Sony compact disc player Discman. Do not connect it to other equipments.
- DCC-50 is designed for negative ground 12 V DC operation only and cannot be used in cars with 24 V electrical systems.
- For the polarity and voltage of your car battery, consult your car dealer.

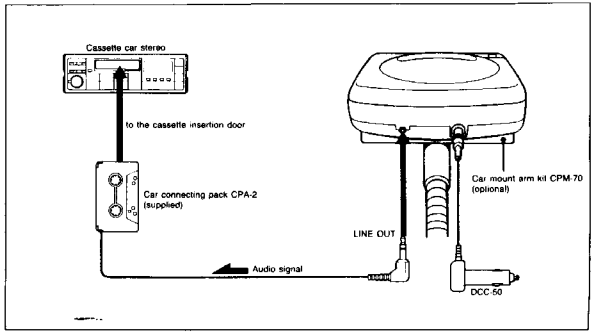
Notes

- Clean the cigarette lighter socket to avoid poor electrical contact caused by cigarette ashes or rust inside the socket.
- After use, be sure to disconnect the input plug from the socket of the car. If the ⊕ polarity of the output plug touches any metal part on the car with the input plug plugged into the socket, the fuse in the input plug may be blown.
- When listening to the radio, remove the car battery cord or keep the radio away from it.



If the input plug of the DCC-50 is too loose when you insert it in the cigarette lighter socket, replace the head plug of the DCC-50 with the supplied one. (Refer to the illustration in "Fuse Replacement.")

Signal Connections (with the supplied car connecting pack CPA-2)



If you have a cassette car stereo with the tape head on the right side, you can use the CPA-2 as it is. In other cases, you need to change the side of the cord. (See "To Change the Side of the Cord" in "Supplied Accessories.")

Notes

- **When you replace the cord cover removed, make sure to fit it firmly.**
- The cord should be placed so that it does not hinder driving.
- **To disconnect the cord from the CD player,** pull it out by grasping the plug. Never pull the plug out by the cord.

The use of the CPA-2 may not to be suitable for certain types of car stereo.

If you have any questions or problem concerning your unit (e.g. the cassette car stereo does not activate after inserting the CPA-2), please consult your nearest Sony dealer.

Precautions

On safety

- As the laser beam used in this compact disc player is harmful to the eyes, **do not attempt to disassemble the casing.** Refer servicing to qualified personnel only.
- **Do not put anything in the safety slot inside the disc compartment.** If you do, the laser beam may come out when the lid is opened. Do not put anything in the DC IN 9 V (external power input) jack.
- The lens on the disc table should be kept clean. **Do not touch the lens or poke at it.** If you do, the lens may be damaged and the player will not operate properly.
- **Do not wrap the player in a cloth, blanket, etc.** If you do, the temperature inside the player may rise, resulting in malfunction of the player.
- Should any solid object or liquid fall into the player, disconnect the power source and have the player checked by qualified personnel before operating it any further.
- When the unit will not be used for a long time, be sure to remove the batteries, or disconnect the AC power adaptor or mount plate from the unit. To remove the AC power adaptor from the wall outlet, grasp the adaptor itself, never pull it by the cord.

On power sources

- Use batteries, house current, or car battery.

  For AC operation: Use the supplied AC power adaptor. Do not use any other AC power adaptor as it may cause malfunction.

  For car battery operation: Use the supplied car battery cord DCC-50.

On operation

Since the CD system offers a wide dynamic range, the peaks of the high level inputs are recorded with high fidelity, and the noise level is very low. **Do not turn up the volume while listening to a portion with no audio signals or very low level inputs.** If you do, the speakers may be damaged when a peak level portion is played.

On installation

- Never put the unit:
  - —near heat sources as radiators or air ducts.
  - —in direct sunlight.
  - —exposed excessive dust.
  - —exposed moisture or rain.
  - —in an inclined position.
- If the player is brought directly from a cold location to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the player. Should this occur, the player will not operate. In this case, **remove the disc and leave the player in a warm place for about an hour until the moisture evaporates.**
- For the unit to operate at its best, it should not be subjected to temperatures below 5°C (41°F) or above 35°C (95°F).

Notes on headphones

- Avoid listening with your headphones:
  - **—while driving, cycling, etc.**
  - —for an extended period of time at a high volume.
- Remember not to disturb those close to you with the sounds coming from your headphones.
- To obtain the optimum sound, keep the plug of your headphones clean by wiping it with a dry, soft cloth.

If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

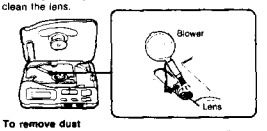
Maintenance

Cleaning the Casing

Clean the casing with a soft cloth slightly moistened with water or mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as they may mar the finish of the casing.

Cleaning the Lens

If you have accidentally touched the lens with a dirty finger or if the dust on the lens prevents the unit from operating properly, open the disc compartment lid and clean the lens.



To remove dust

Blow on the lens a few times with a commercially available blower, brush the dust away in the direction of the arrow, then blow on the lens again.

If the lens is still dirty after you have followed the above instructions and the unit still does not function properly, please consult your nearest Sony dealer.

Notes on Compact Discs

Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature inside the car.

Scratches or dirt (such as caused by fingerprints) on a disc is the most likely cause of the skipping of sound. Before getting the player checked, check the disc.

Before playing, clean the disc with the optional cleaning cloth. Wipe the disc from the center to out.

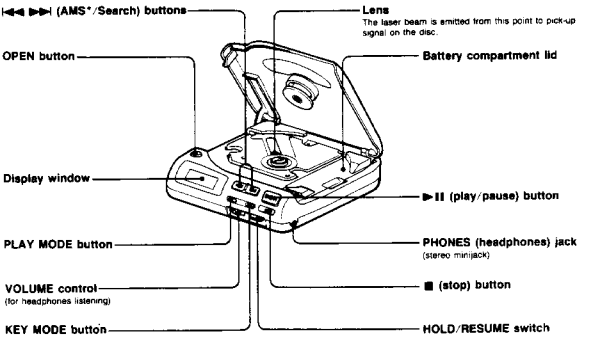
Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

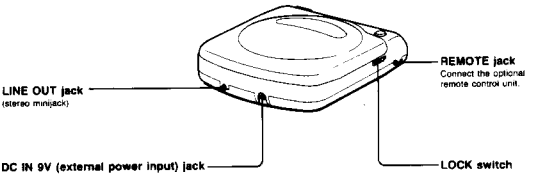
Cleaning the Headphones Plug

Keep the plug of your headphones clean to obtain the optimum sound. Wipe it with a dry, soft cloth.

Location and Function of Controls



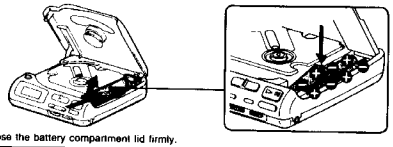
*AMS is an abbreviation for Automatic Music Sensor.



Power Sources

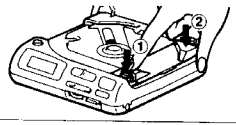
When Using Batteries

Install four size AA (LR6) alkaline batteries.
Approximately 8 hours of continuous play is possible.

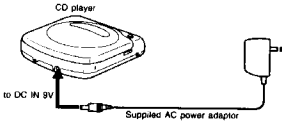


Close the battery compartment lid firmly.

If the battery compartment lid is removed
Replace it by pushing both sides in the numbered order as shown.



Using on House Current



Note

[redacted] and ▶ appear in the display window during play or pause, and blink when the power of the batteries becomes weak. If the batteries are weak, the indications may be interrupted temporarily when you press ▶II or ■, or when the player is subjected to a shock.

Notes on batteries

- Insert the batteries with correct polarity.
- Do not use the old batteries with new ones or the different types of batteries together.
- You cannot charge the battery.
- If the electrolyte inside the battery should come into contact, wash the contaminated parts in the battery box with cloth and replace old batteries with new ones.
- When the batteries are not used for a long period of time, remove them.

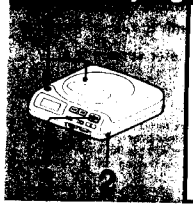
Notes on house current

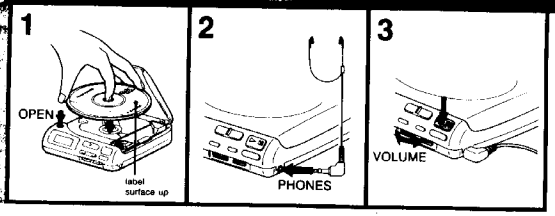
- When the player is not used, be sure to disconnect the AC power adaptor.
- When you use the AC power adaptor, remove the batteries.
- Use only the supplied AC power adaptor. Polarity of the plugs of other manufacturers may be different.

Polarity of the Sony plug

Disc Playing

When you use batteries as a power source, the disc compartment, the display window and buttons are not illuminated.





When disc play starts
Display window changes as follows.

Other Operations

To pause
Press ▶II. (To play, press again.)

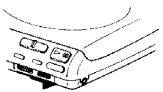
To stop
Press ■.

To play 3 inches CD
You can play 3 inches CD without using an adaptor for it.

To resume disc play from the point where you stopped the play last time (Resume play mode)

Notes on the Resume Play

- You can resume disc play from the point where you last pressed ■.
  When using the Resume Play function, set HOLD/RESUME to the second or third position.
- If you open the lid or exchange discs after pressing ■, the memory will be cleared and play will start from the first track.
- When the resume memory is retained by an external power source, it will be cleared when the power is cut off. To keep the memory retained at all times, use the set with the batteries inside.

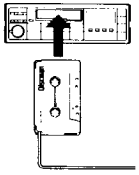


The positions of the HOLD/RESUME switch

	1st. (left)		2nd.		3rd. (right)
Hold	OFF	→	OFF	→	ON
Resume play mode	OFF	→	ON	→	ON

Listening in a Car

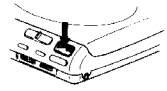
1 Insert the CPA-2 into the cassette car stereo.



2 Set the tape selector to the normal (TYPE 1) position and the DOLBY NR switch to OFF if they are equipped.

3 Start playback as you would for a tape from the front side.

4 Start play on the CD player. Adjust the volume with your car stereo.



To remove the CPA-2, press the ⏏ (eject) button of the cassette car stereo.

No sound comes out?
If your car stereo is equipped with the auto-reverse function (the function of changing the direction of tape transportation automatically), try to change the direction of tape transportation.

Note
When you park your car for a long period, remove the CD player so it will not be exposed to direct sunlight.

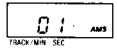
Locating a Particular Portion

Each time KEY MODE is pressed, locating mode changes.

Locating a particular selection —AMS

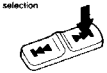
During play or pause → KEY

selection number



To locate the beginning of the current selection

To locate the next selection



Locating a particular point in a selection —SEARCH

During play or pause → KEY

Elapsed playing time

To go back at high speed

To go ahead at high speed

Press KEY MODE to return the AMS function.

Notes on the AMS function

- The player pauses at the beginning of the located selection when you press I◀◀ or ▶▶I in the pause mode.
- If you keep pressing I◀◀, the player locates the previous selections. If you keep pressing ▶▶I, the player locates the next selections and stops at the last selection.

What is this indication?

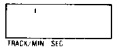
- ♩ ♩ appears if you continuously press ▶▶I at the end of the disc. To return to a TRACK indication, press I◀◀.
- ♩ ♩ appears while the player is locating a particular selection.

Various Playing Modes

Each time PLAY MODE is pressed, play mode changes.
To stop the disc, press ■.

Repeating one selection —1 repeat

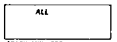
During play → PLAY



After the current selection ends, the same selection will be repeated.

Repeating the whole disc —ALL repeat

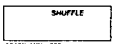
During play → PLAY



When play reaches the end of the disc, it restarts from the first selection.

Playing in random order —SHUFFLE repeat

During play → PLAY



The selections in the disc will be played in random order. After all the selections have been played, they will be reshuffled and played continuously in a different order each time.

Press PLAY MODE to return to the normal play.

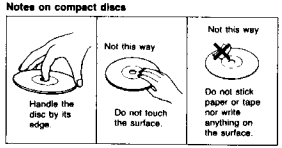
During shuffle play

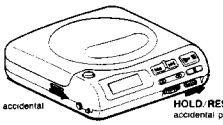
To locate the beginning to the selection being played
Press I◀◀.

To locate the next selection
Press ▶▶I.

You cannot locate a previous selection even if you keep pressing I◀◀.

Notes on compact discs


Handle the disc by its edge.
Not this way
Do not touch the surface.
Not this way
Do not stick paper or tape nor write anything on the surface.

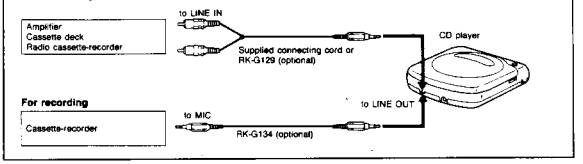


LOCK switch: prevents accidental opening of the lid.

HOLD/RESUME switch: prevents accidental pressing of the buttons.

Use the Sony RM-DM1K (wireless) or RM-DM2 (wired) remote commander unit (optional).

- Be sure to turn off the power before connecting.
- Disconnect the remote commander from the REMOTE jack when it is not being used.
- Use the RM-DM1K only when the power is supplied from the DC IN 9V jack.
- When the RM-DM1K is used, A ⟷ B repeat cannot be performed.
- You can use the remote commander even when the HOLD/RESUME switch is set.

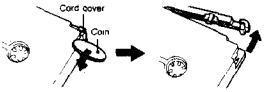


You can listen to the CD player through speakers, or record its sound.

Notes on connection

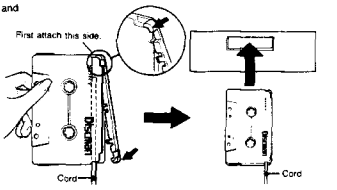
- Turn off the amplifier before making connections.
- Plug in the white plug to the L (left channel) jack, and the red plug to the R (right channel) jack.
- Be sure to insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
- Be sure not to connect the CD player to the PHONO input jack of the amplifier.
- If the CD player causes interference to radio and television reception, turn off the player or move the player away from the receiver.

1 Remove the cord cover.

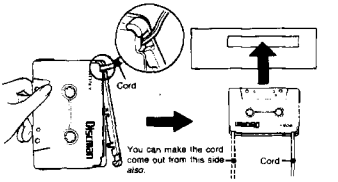


2 *Change the cord to the appropriate side* according to your cassette car stereo, and replace the cover again.

Cassette car stereo with a tape head at the left side



Cassette car stereo with a tape head inner



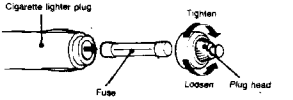
If the unit does not seem to function normally, check whether the fuse in the input plug is blown. If the fuse is blown (the LED on the input plug does not light), replace it with the supplied spare fuse.

1 Turn off your DISCMAN, and unplug the DCC-50 from the cigarette lighter socket.

2 Loosen and remove the plug head.

3 Replace the blown fuse with the supplied spare fuse.

4 Replace the removed plug head.



Notes

- Replace the fuse only with the same type of the supplied spare fuse. Never use an ordinary piece of wire.
- If the unit still fails to function normally after fuse replacement, please consult the nearest Sony dealer.